C(PROGRAMMING : STRING)

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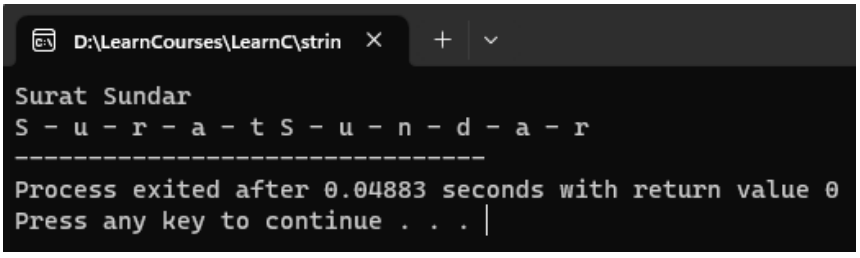
1. **Write a C program that demonstrate static string and add - (dash) after each character except last character.**

   ❖ **Input:**

```
#include <stdio.h>

int main() {

    int i;
    char name[13] = {'S', 'u', 'r', 'a', 't', ' ', 'S', 'u', 'n', 'd', 'a', 'r'};

    puts(name);

    for (i = 0; i < name[i]; i++) {
        if ((name[i + 1] == ' ') || (name[i] == ' ') || (name[i + 1] == '\0')) {
            printf("%c", name[i]);
        } else {
            printf("%c - ", name[i]);
        }
    }

    return 0;
}
```

   ❖ **Output:**



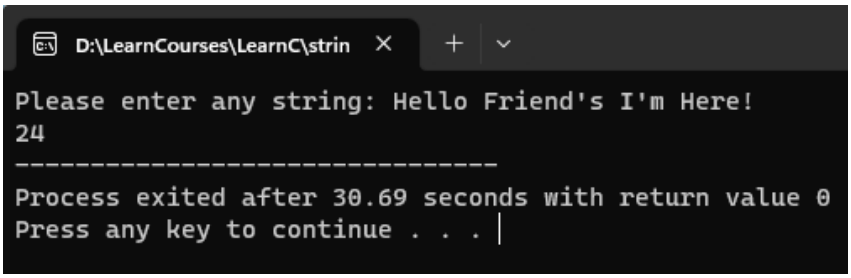
2. Write a C program that demonstrate all string functions.

❖ Input:

```
#include <stdio.h>

int main() {
    int l;
    char str[100], str1[100];

    printf("Please enter any string: ");
    gets(str);

    printf("Please enter second string: ");
    gets(str1);



    l = strlen(str);
    printf("%d", l);

    strcpy(str1, str);
    puts(str1);

    strcat(str, str1);
    puts(str);

    strcmp(str, str1);
    if (strcmp(str, str1) == 0) {
                printf("Your added both strings are same.");
    } else {
            printf("Your added both strings are not same. ");
    }
```

```
    strrev(str);
    puts(str);

    strlwr(str);
    puts(str);

    strupr(str);
    puts(str);

    return 0;
}
```

❖ **Output:**

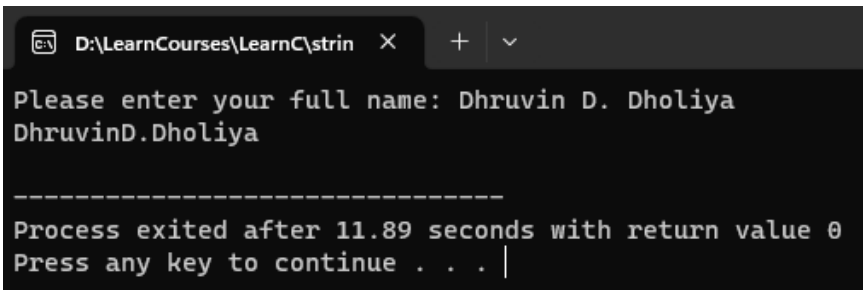


3. Write a C program that remove white space from given string.

❖ Input:

```
#include<stdio.h>
int main() {

        int i, j;
        char str[100];

        printf("Please enter your full name: ");
        gets(str);

        while (str[i] != '\0') {
                if (str[i] == ' ') {
                        for (j = i; str[j] != '\0'; j++) {
                                str[j] = str[j + 1];
                        }
                }
        i++;
        }
        puts(str);
        return 0;
}
```

❖ Output:

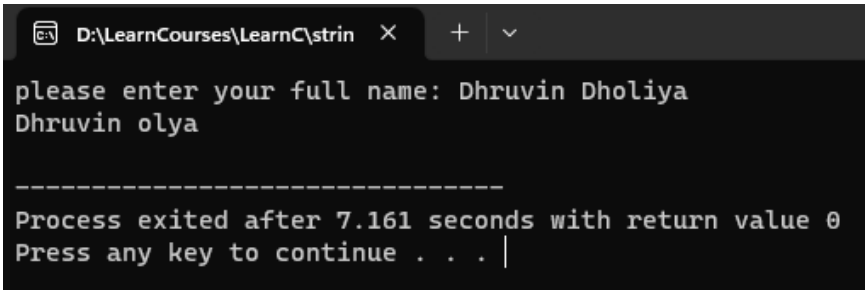


4. **Write a C program that remove repeated character from given string**.

❖ **Input:**

```
#include<stdio.h>
int main() {

    int i, j, k;
    char str[100];

    printf("please enter your full name: ");
    gets(str);

    for (i = 0; str[i] != '\0'; i++) {
        for (j = i + 1; str[j] != '\0'; j++) {
            if (str[j] == str[i]) {
                for (k = j; str[k] != '\0'; k++) {
                    str[k] = str[k + 1];
                }
            }
        }
    }
    puts(str);
    return 0;
}
```

❖ **Output:**



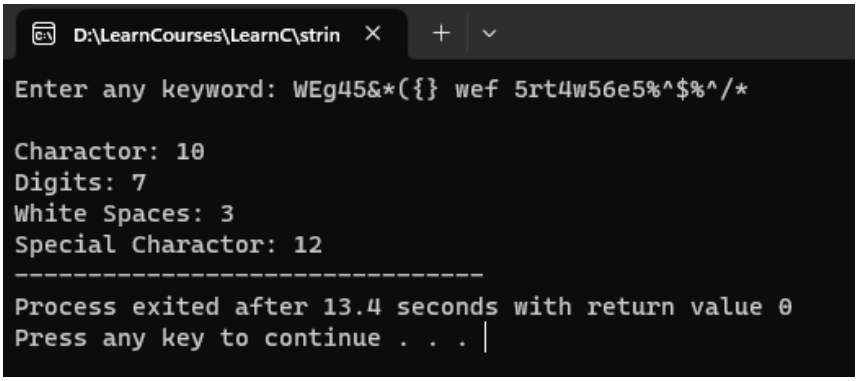
5. Write any two C program that demonstrate string without string function.

❖ Input:

```
#include <stdio.h>
int main() {

    char keyword[150];
    int i, charactor = 0, digit = 0, space = 0, spacialChar = 0;

    printf("Enter any keyword: ");
    gets(keyword);

    for (i = 0; keyword[i] != '\0'; i++) {
    if (((keyword[i] >= 'a') && (keyword[i] <= 'z')) || ((keyword[i] >= 'A') &&
(keyword[i] <= 'Z'))) {
            charactor++;
    } else if (keyword[i] >= '0' && keyword[i] <= '9') {
            digit++;
    } else if (keyword[i] == ' ') {
            space++;
    } else {
            spacialChar++;
            }
 }

 printf("\nCharactor: %d", charactor);
 printf("\nDigits: %d", digit);
 printf("\nWhite Spaces: %d", space);
 printf("\nSpecial Charactor: %d", spacialChar);
```

```
    return 0;
}
```

❖ **Output:**

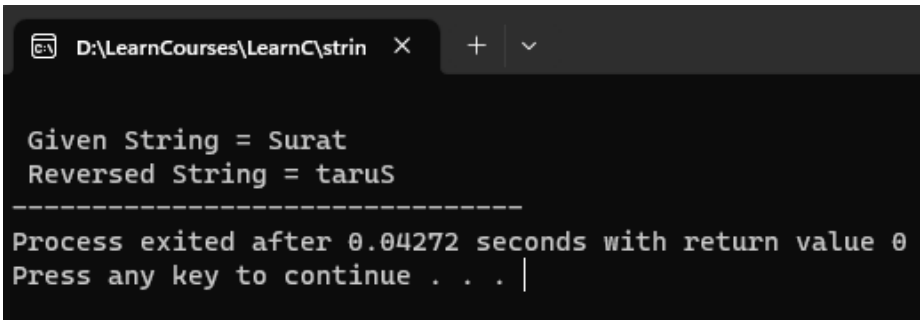


6. Write any two C program that demonstrate string without string function.

❖ **Input:**

```
#include <stdio.h>

int main() {

        char string1[5] = {'S', 'u', 'r', 'a', 't'}, reversed_string[5];
        int i, j, count = 0;

        printf("\n Given String = %s", string1);

        while (string1[count] != '\0') {
                count++;
        }

        j = count - 1;

        for (i = 0; i < count; i++) {
                reversed_string[i] = string1[j];
                j--;
        }

        printf("\n Reversed String = %s", reversed_string);

        return 0;
}
```

❖ **Output:**


D:\LearnCourses\LearnC\strin
Given String = Surat
Reversed String = taruS
Process exited after 0.04272 seconds with return value 0
Press any key to continue . . .